

SWSAP1 Protein, Human (His)

Cat. No.:	HY-P71347
Synonyms:	ATPase SWSAP1; SWIM-type zinc finger 7-associated protein 1; SWS1-associated protein 1; ZSWIM7-associated protein 1; SWSAP1; C19orf39
Species:	Human
Source:	E. coli
Accession:	Q6NVH7 (M1-P229)
Gene ID:	126074
Molecular Weight:	Approximately 30.0 kDa

PROPERTIES

AA Sequence	<pre> M P A A G P P L L L L G T P G S G K T A L L F A A A L E A A G E G Q G P V L F L T R R P L Q S M P R G T G T T L D P M R L Q K I R F Q Y P P S T R E L F R L L C S A H E A P G P A P S L L L L D G L E E Y L A E D P E P Q E A A Y L I A L L L D T A A H F S H R L G P G R D C G L M V A L Q T Q E E A G S G D V L H L A L L Q R Y F P A Q C W L Q P D A P G P G E H G L R A C L E P G G L G P R T E W W V T F R S D G E M M I A P W P T Q A G D P S S G K G S S S G G Q P </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, 1 mM EDTA, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>The ATPase SWSAP1 is selectively stimulated by single-stranded DNA and plays a crucial role in homologous recombination repair (HRR). Apart from its ATPase activity, SWSAP1 exhibits an independent DNA-binding capability. It forms a functional complex with ZSWIM7, contributing to homologous recombination repair, and both proteins mutually stabilize each other. SWSAP1 further interacts with key proteins involved in HRR, including RAD51, RAD51B, RAD51C, RAD51D, and XRCC3, highlighting its involvement in facilitating homologous recombination repair processes.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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